

Koch, Kristine

From: Humphrey, Chip
Sent: Monday, March 17, 2014 9:40 AM
To: Tom Gainer (gainer.tom@deq.state.or.us); PETERSON Jenn L; Bob Dexter; Gail Fricano (gfricano@indecon.com)
Cc: Alex Liverman (liverman.alex@deq.state.or.us); Allen, Elizabeth; Audie Huber (audiehuber@ctuir.com); Bob Dexter; brandy.humphreys@grandronde.org; Brian Cunningham (cunninghame@gorge.net); callie@ridolfi.com; Conley, Alanna; Erin Madden (erin.madden@gmail.com); Fuentes, Rene; Gail Fricano (gfricano@indecon.com); Genevieve Angle (Genevieve.Angle@noaa.gov); JD Williams (jd@williamsjohnsonlaw.com); peterson.Jennifer@deq.state.or.us; Jeremy_Buck@fws.gov; Julie Weis (jweis@hk-law.com); Matt Johnson (matt@williamsjohnsonlaw.com); Matt McClincy (mcclincy.matt@deq.state.or.us); Michael.karnosh@grandronde.org; poulsen.mike@deq.state.or.us; Muza, Richard; rdelvecchio@indecon.com DelVecchio; Robert.Neely@noaa.gov; rose@yakamafish-nsn.gov; Sheldrake, Sean; Shephard, Burt; Susan J. Penoyar (PenoyarSJ@cdm.com); Todd King (KingTW@cdmsmith.com); tomd@ctsi.nsn.us; Tom Gainer (gainer.tom@deq.state.or.us); Koch, Kristine
Subject: FW: Benthic Risk Areas; LWG Action Items
Attachments: FS Appx P Map 1a_additional tox model info_extra layers off.pdf; FS Appx P Map 1a_wPEC_MQ.PDF; FS Appx P Map 1a_wPEC_MQ_extra layers off.pdf; FS Appx P Map 1a_wPEL_MQ.PDF; FS Appx P Map 1a_wPEL_MQ_extra layers off.pdf; FS Appx P Map 1b_additional tox model info_extra layers off.pdf; FS Appx P Map 1b_wPEC_MQ.PDF; FS Appx P Map 1b_wPEC_MQ_extra layers off.pdf; FS Appx P Map 1b_wPEL_MQ.PDF; FS Appx P Map 1b_wPEL_MQ_extra layers off.pdf

This is to follow up on one of the items from the FS team meeting on Friday. During the team meeting on Friday I mentioned that EPA requested additional benthic toxicity information from LWG.

Attached are benthic toxicity maps that LWG provided in response to EPA's request. EPA requested that maps of PEC and PEL MQs be added to the comprehensive benthic risk area maps 1a and 1b in Appendix P of the draft FS. The maps provided show each of the SQV MQs added to the 1a and 1b maps. LWG has also provided maps with the other layers turned off (showing just the PEC and PEL MQs) since the overlay maps are pretty busy.

EPA also requested maps identifying which model (FPM or LRM) resulted in the hit, no hit predictions where maps 1a and 1b showed models disagree or only one model was available. I will provide those maps in a separate email.

Chip

From: John Toll [mailto:JohnT@windwardenv.com]
Sent: Thursday, March 13, 2014 1:01 PM
To: Humphrey, Chip; Shephard, Burt
Cc: James McKenna; Carl Stivers (cstivers@anchorqea.com); Amanda Shellenberger; Bob Wyatt (rjw@nwnatural.com); Patty Dost; Jennifer Worenets (jworonets@anchorqea.com)
Subject: RE: Benthic Risk Areas; LWG Action Items

Chip and Burt,

I've attached maps that provide the information you requested in items 1 and 3 below. These are for discussion purposes for the conference call this afternoon. Talk to you at 2:00.

John

From: Humphrey, Chip [mailto:Humphrey.Chip@epa.gov]
Sent: Wednesday, March 12, 2014 10:09 AM

To: James McKenna; Shephard, Burt; Koch, Kristine
Cc: Carl Stivers (cstivers@anchoragea.com); John Toll; Bob Wyatt (rjw@nwnatural.com); Patty Dost; Jennifer Worenets (jwornets@anchoragea.com)
Subject: RE: Benthic Risk Areas; LWG Action Items

Jim,

Thanks for providing the summary below. We agree that it captures EPA's requests and our expectation of follow-up tasks from our conference call yesterday on benthic risk areas.

Chip Humphrey

From: James McKenna [<mailto:jim.mckenna@verdantllc.com>]
Sent: Wednesday, March 12, 2014 9:08 AM
To: Humphrey, Chip; Shephard, Burt
Cc: Carl Stivers (cstivers@anchoragea.com); John Toll (JohnT@windwardenv.com); Bob Wyatt (rjw@nwnatural.com); Patty Dost; Jennifer Worenets (jwornets@anchoragea.com)
Subject: Benthic Risk Areas; LWG Action Items

Chip and Burt:

The following is a summary of your requests made during the Tuesday afternoon conference call with me, you, Burt, John and Carl, along with the associated follow-up tasks for Windward and Anchor QEA. Please let us know if this adequately captures your requests and reflects the follow-up tasks you are expecting. Thanks, Jim.

1. **EPA Request** - Superimpose the PEC and PEL MQ layers from Maps 6-20 and 6-21 of the final BERA on Maps 1A and 1B of FS Appendix P, Attachment 1 to see how well MQ > 0.7 hits match up with Comprehensive Benthic Risk Areas.

Path Forward - WW and AQ will coordinate the development of the maps Chip and Burt requested, and will aim to get them to EPA by close of business March 12. If upon EPA's review of the PEC and PEL layers it determines changes to the Comprehensive Benthic Risk Areas are warranted, then EPA will engage in further discussions with the LWG about the reliability of these LOEs.

2. **EPA Request** - confirm that areas that have been remediated or otherwise removed (e.g., maintenance dredging) were excluded from Comprehensive Benthic Risk Areas.

Path Forward - AQ or WW will review the data and will aim to provide EPA a response by close of business March 12.

3. **EPA Request** - Provide documentation for the following:

At bioassay stations coded red on Maps 1A and 1B of FS Appendix P, Attachment 1, identify which are based on a single model and which are based on concurrence of both models (FPM and LRM).

At bioassay stations coded yellow on Maps 1A and 1B of FS Appendix P, Attachment 1, identify which are based on an LRM hit and which are based on an FPM hit.

Path Forward - Windward will provide the requested information, and aim to get it to EPA by close of business March 12.

EPA also indicated it may have additional questions regarding how the LWG addressed uncertainty about benthic risk at bioassay stations coded yellow on Maps 1A and 1B of FS Appendix P, Attachment 1, that fall outside of the Comprehensive Benthic Risk Areas. There may be follow-up discussions with EPA and the LWG on this topic.